(Easier) Practice Quiz 3 Calc 3 11/8/2016

1. Parametrize and give bounds for the portion of the paraboloid $z = x^2 + y^2$ lying above the rectangle with vertices (0,0), (2,0), (2,3), and (0,3).

2. Parametrize and give bounds for the portion of the cylinder with radius 4 centered around the z-axis between $z = 2$ and $z = 10$.

3. Parametrize and give bounds for the portion of the plane $z = 12$ that lies within the cylinder with equation $x^2 + y^2 = 16$.

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1. Parametrize and give bounds for the rectangle with vertices (3,0,0), (3,2,0), (3,2,5), and (3,0,5).

2. Parametrize and give bounds for the right half (i.e. the portion with positive y coordinates) of the cylinder with radius a and centered on the x-axis between $x = 0$ and $x = 5$.

3. Parametrize and give bounds for the portion of the plane $x = 12$ that lies within the cylinder with equation $y^2 + z^2 = r^2$.